FILE COVERS 1907 - 29 Jul 2009 VOL 151 ISS 5
FILE LAST UPDATED: 28 Jul 2009 (20090728/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family
of databases have been updated to include new citing references
information. This enhancement may impact record import into
database management software. For additional information, refer
to NEWS 22.

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Uploading C:\Program Files\Stnexp\Queries\10579594.str

L1 STRUCTURE UPLOADED

=> d
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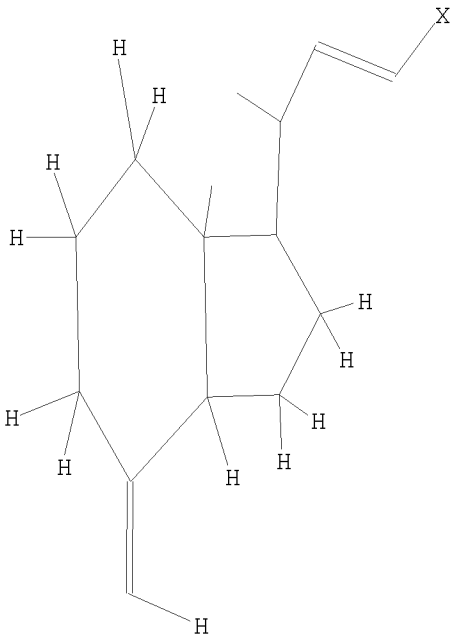
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 13:48:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 80 TO 560
PROJECTED ANSWERS: 1 TO 80

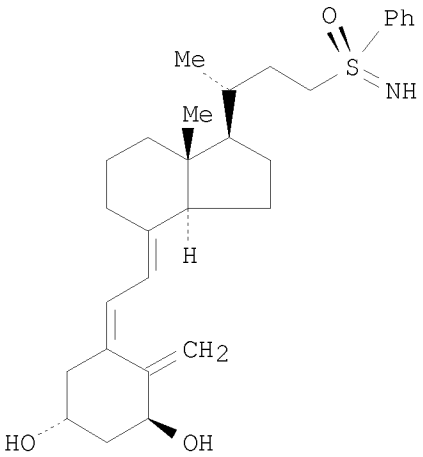
L2 1 SEA SSS SAM L1

L3 1 L2

=> d ibib abs hitstr
THE ESTIMATED COST FOR THIS REQUEST IS 5.64 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:1024083 CAPLUS
DOCUMENT NUMBER: 142:134781
TITLE: Potent, Selective and Low-Calcemic Inhibitors of CYP24 Hydroxylase: 24-Sulfoximine Analogues of the Hormone 1α,25-Dihydroxyvitamin D3
AUTHOR(S): Kahraman, Mehmet; Sinishtaj, Sandra; Dolan, Patrick M.; Kensler, Thomas W.; Peleg, Sara; Saha, Uttam; Chuang, Samuel S.; Bernstein, Galina; Korczak, Bozena; Posner, Gary H.
CORPORATE SOURCE: Department of Chemistry, School of Arts and Sciences, The Johns Hopkins University, Baltimore, MD, 21218, USA
SOURCE: Journal of Medicinal Chemistry (2004), 47(27), 6854-6863
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:134781
GI

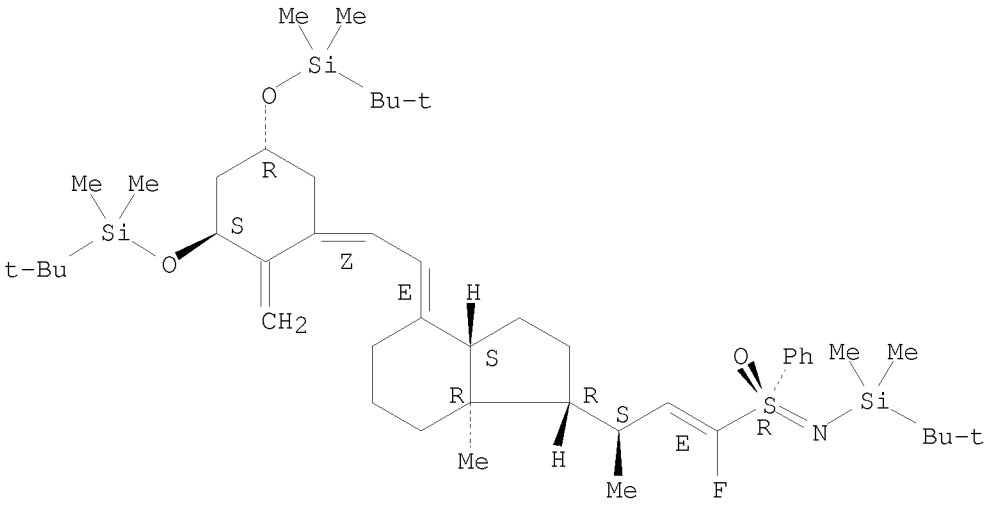


I

AB A dozen 24-sulfoximine analogs of the hormone 1α,25-dihydroxyvitamin D3 were prepared, differing not only at the stereogenic sulfoximine stereocenter but also at the A-ring. Although these sulfoximines were not active transcriptionally and were only very weakly antiproliferative, some of them are powerful hydroxylase enzyme inhibitors. Specifically, 24(S)-NH Ph sulfoximine I is an extremely potent CYP24 inhibitor (IC50 = 7.4 nM) having low calcemic activity. In addition, this compound shows high selectivity toward the CYP24 enzyme in comparison to CYP27A1 (IC50 > 1000 nM) and CYP27B (IC50 = 554 nM).
IT 825638-30-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and CYP24 inhibitory activity of dihydroxyvitamin D3 sulfoximine analogs)
RN 825638-30-0 CAPLUS
CN Silanamine, N-[(R)-[(1E,3S)-3-[(1R,3aS,4E,7aR)-4-[(2Z)-2-[(3S,5R)-3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-methylenecyclohexylidene]ethylidene]octahydro-7a-methyl-1H-inden-1-yl]-1-fluoro-1-buten-1-yl]oxidophenyl-λ4-sulfanylidene]-1-(1,1-dimethylethyl)-1,1-dimethyl- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l1 sss full
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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100.0% PROCESSED 268 ITERATIONS 16 ANSWERS
SEARCH TIME: 00.00.01

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L7            2 L5 AND PY<2004

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THE ESTIMATED COST FOR THIS REQUEST IS 11.28 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L7   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:         1994:245588  CAPLUS
DOCUMENT NUMBER:          120:245588
ORIGINAL REFERENCE NO.:   120:43561a,43564a
TITLE:                    1α,24S-Dihydroxy-26,27-cyclo-22-yne vitamin D3:
                          the side chain triple bond analog of MC 903
                          (calcipotriol)
AUTHOR(S):                Calverley, Martin J.; Bretting, Claus Aa.S.
CORPORATE SOURCE:         Chem. Res. Dep., Leo Pharm. Prod., Ballerup, DK-2750,
                          Den.
SOURCE:                   Bioorganic & Medicinal Chemistry Letters (1993
                          ), 3(9), 1841-4
                          CODEN: BMCLE8; ISSN: 0960-894X
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 120:245588
GI
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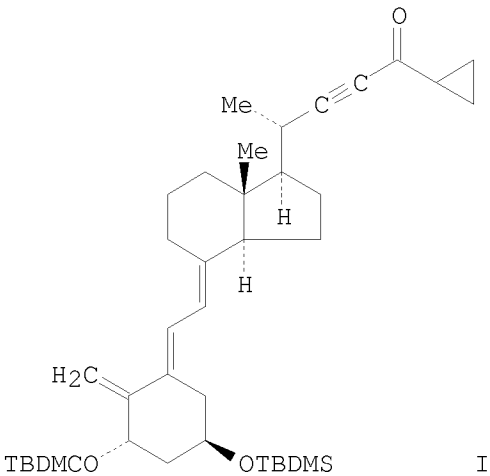

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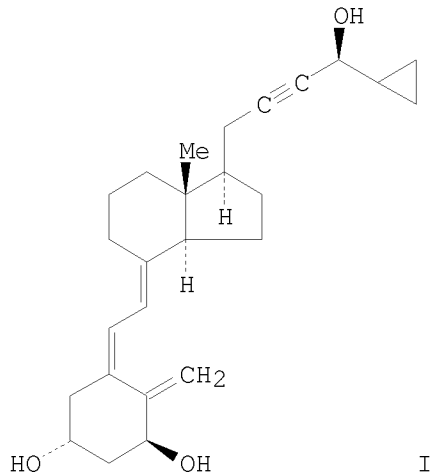


II

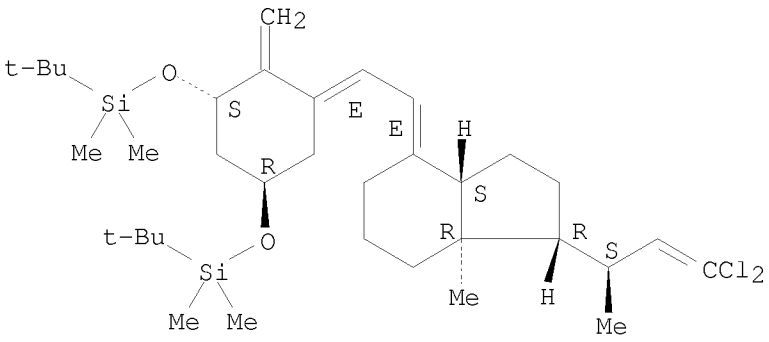
AB The side chain propargylic alc. function [established stereoselectively via S-Alpine-Borane reduction of ynone I (TBDMS = tert-butyldimethylsilyl) and correlated with MC 903] in the title compound II replaces the metabolically labile allylic alc. function of MC 903, a selective analog of the vitamin D hormone used for treating psoriasis. II exhibits reduced in vitro activity but still shows selectively much lower in vivo calcemic effects.

IT 154171-12-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and lithiation and cyclopropylcarbonylation of)

RN 154171-12-7 CAPLUS

CN Silane, [[(1α,3β,5E,7E)-23,23-dichloro-24-nor-9,10-secochola-5,7,10(19),22-tetraene-1,3-diyl]bis(oxy)]bis[(1,1-dimethylethyl)dimethyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1992:255875 CAPLUS
DOCUMENT NUMBER: 116:255875
ORIGINAL REFERENCE NO.: 116:43403a,43406a
TITLE: Preparation of vitamin D analogs as drugs
INVENTOR(S): Bretting, Claus Aage Svensgaard
PATENT ASSIGNEE(S): Leo Pharmaceutical Products Ltd. A/S, Den.
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9203414	A1	19920305	WO 1991-DK200	19910711 <--
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MC, MG, MN, MW, NO, PL, RO, SD, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
CA 2078555	A1	19920216	CA 1991-2078555	19910711 <--
CA 2078555	C	20021126		

AU 9184223	A	19920317	AU 1991-84223	19910711	<--
AU 636510	B2	19930429			
EP 543864	A1	19930602	EP 1991-914384	19910711	<--
EP 543864	B1	19941214			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE					
JP 06500089	T	19940106	JP 1991-513854	19910711	<--
JP 3246914	B2	20020115			
ES 2068601	T3	19950416	ES 1991-914384	19910711	<--
RU 2126384	C1	19990220	RU 1992-16313	19910711	<--
CZ 286485	B6	20000412	CZ 1992-3726	19910711	<--
US 5447924	A	19950905	US 1992-927420	19920922	<--
FI 103791	B	19990930	FI 1992-5547	19921207	<--
FI 103791	B1	19990930			
SK 281443	B6	20010312	SK 1992-3726	19921217	<--
LV 10089	B	19941020	LV 1993-243	19930215	<--
LT 3666	B	19960125	LT 1993-965	19930910	<--

PRIORITY APPLN. INFO.: GB 1990-17890 A 19900815
CS 1992-3726 A 19910711
WO 1991-DK200 A 19910711

OTHER SOURCE(S): MARPAT 116:255875

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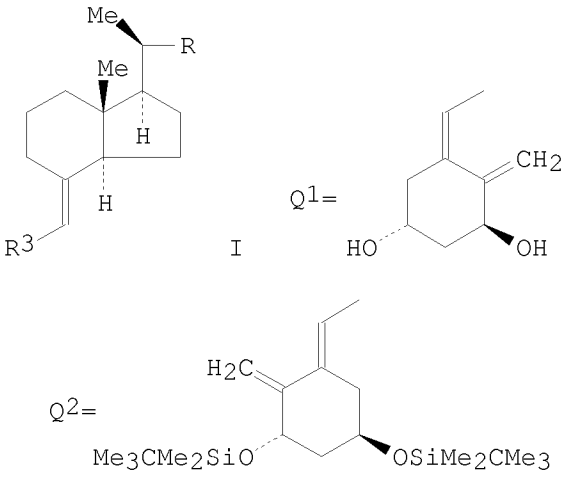


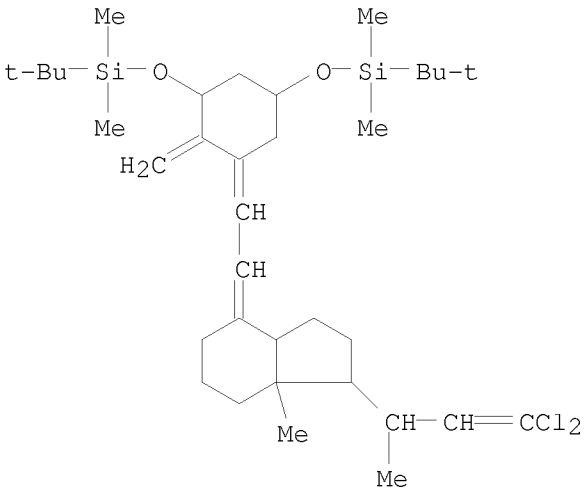
AB Title compds. [I; R = Z1C.tplbond.CZ2CR1R2X; R1, R2 = H, hydrocarbyl; or R1R2 = atoms to form a carbocyclic ring; R3 = cyclohexylidenemethylidyne group Q1; X = H, OH; Z1 = (substituted)(CH2)m; Z2 = bond, hydrocarbylenediyl; m = 0-2] were prepared as antiinflammatories, immunomodulators, etc. (no data). Thus, I (R = CHO, R3 = cyclohexylidenemethylidyne group Q2) was condensed with (Me2N)3P:CCL2 (prepared in situ) and the product treated, in turn, with BuLi and Br(CH2)3CEt2OSiMe3 to give I [R = C.tplbond.C(CH2)3CEt2OSiMe3, R3 = Q2] which was photoisomerized to give, after deprotection, I [R = C.tplbond.C(CH2)3CEt2OH, R3 = Q1].

IT 141545-84-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of antiinflammatory and immunomodulator)

RN 141545-84-8 CAPLUS

CN 1H-Indene, 4-[(2E)-2-[(3S,5R)-3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-methylenecyclohexylidene]ethylidene]-1-[(1R)-3,3-dichloro-1-methyl-2-propen-1-yl]octahydro-7a-methyl-, (1R,3aS,4E,7aR)- (CA INDEX NAME)



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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT